## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A tape library storage system, comprising: at least one tape drive tray;

an intelligence module <u>stationary</u> within the at least one tape drive tray, said intelligence module having electronics to control and monitor tape drive tray functions in the storage library; and

a main library controller interfaced to the intelligence module, wherein the intelligence module sends tape drive tray function data to the main library controller.

- 2. (Original) The system in claim 1, wherein the intelligence module interface includes a tape transport interface port.
- 3. (Original) The system in claim 1, wherein the tape drive tray function data is sent via a wireless connection.
- 4. (Original) The system in claim 3, wherein the wireless connection includes at least one of a radio frequency or infrared transmission.
- 5. (Original) The system in claim 1, wherein the main library controller transmits commands to be performed on the tape drive tray by the intelligence module.
- 6. (Original) The system in claim 5, wherein positive or negative acknowledgment of the commands is sent back to the main library controller after the commands are received by the intelligence module.
- 7. (Original) The system in claim 5, wherein the main library controller transmits the command to the intelligence module in a serial format.

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- 8. (Original) The system in claim 7, wherein the intelligence module decodes the serially formatted command into discrete signals corresponding to a specific tape drive tray interface.
- 9. (Original) The system in claim 1, wherein the tape drive tray includes at least one of a tape drive, a power supply, a fan, a temperature sensor, and a fault indicator light, each interfaced to the intelligence module.
- 10. (Original) The system in claim 1, wherein the intelligence module sends tape drive tray function information to the main library controller in a serial format.
- 11. (Original) The system in claim 1, wherein the tape drive tray function data is gathered by periodically sampling status signals from the tape drive tray.
- 12. (Currently Amended) A method of transmitting data between a tape drive tray and a main library controller, comprising:

controlling and monitoring tape drive tray functions using an intelligence module stationary within the tape drive tray; and

sending tape drive tray function data to a main library controller interfaced to the intelligence module, wherein the intelligence module sends the data to the main library controller.

- 13. (Original) The method in claim 12, wherein the intelligence module interface includes a serial interface to a tape drive.
- 14. (Original) The system in claim 12, wherein the tape drive tray function data is sent via a wireless connection.
- 15. (Original) The system in claim 14, wherein the wireless connection includes at least one of a radio frequency or infrared transmission.

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- 16. (Original) The method in claim 12, wherein the main library controller transmits commands to be performed on the tape drive tray by the intelligence module.
- 17. (Original) The method in claim 16, wherein positive or negative acknowledgment of the commands is sent back to the main library controller after the commands are received by the intelligence module.
- 18. (Original) The method in claim 16, wherein the main library controller transmits the command to the intelligence module in a serial format.
- 19. (Original) The method in claim 18, wherein the intelligence module decodes the serially formatted command into discrete signals corresponding to a specific tape drive tray interface.
- 20. (Original) The method in claim 12, wherein the tape drive tray includes at least one of a tape drive, a power supply, a fan, a temperature sensor, and a fault indicator light, each interfaced to the intelligence module.
- 21. (Original) The method in claim 12, wherein the intelligence module sends tape drive tray function information to the main library controller in a serial format.
- 22. (Original) The method in claim 12, wherein the tape drive tray function data is gathered by periodically sampling status signals from the tape drive tray.
- 23. (Currently Amended) A method of transmitting data from a tape drive tray to a main library controller, wherein the data to be transmitted is gathered by an intelligence module within the tape drive tray, comprising:

periodically sampling status information generated from devices within the tape drive tray; and

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sending the status information to main library controller in a serial format <u>from</u> an intelligence module stationary within the tape drive.

- 24. (Original) The method in claim 23, wherein the devices generating status information include at least one of a tape drive, a power supply, a fan, a temperature sensor, and a fault indicator light.
- 25. (Currently Amended) A method of controlling devices located within a tape drive tray, comprising:

transmitting control data to the tape drive tray in a serial format;

receiving the control data at the tape drive tray, wherein [[an]] a stationary intelligence module within the tape drive tray decodes the control data; and

using the <u>stationary</u> intelligence module to drive discrete signal lines to a state as specified in the control data.